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IN THE CLAIMS:

Sub C'7 1. (Currently amended) A channel switching apparatus of a digital television, for displaying a next channel icon on a screen when a current channel is switched to a next channel by a user, comprising:

a signal processing unit for receiving a broadcast signal, and performing a digital signal processing and outputting it thereon;

A' Cont'd a CPU for searching a pertinent channel icon by accessing a storing unit storing a channel icon corresponding to a next channel of the digital broadcast signal ~~outputted from the signal processing unit~~ selected by a user;

an icon display unit for displaying the channel icon searched ~~[[from]]~~ by the CPU on a screen; and

the storing unit for storing each designated channel icon corresponding to each received broadcast channel,

wherein the next channel icon is displayed during a gap in the channel switching and represents the next channel selected by the user.

2. (Currently amended) The channel switching apparatus of the digital television according to claim 1, wherein the signal processing unit comprises:

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a digital signal processor unit for processing [[a]] the received broadcast signal into a digital signal and outputting it, and

an analog signal processor unit for performing analog-signal-processing [[of a]] on the received broadcast signal.

3. (Currently amended) The channel switching apparatus of the digital television according to claim 1, wherein the storing unit comprises:

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Cont'd
a main memory unit for storing program data and channel icon set so as to represent a received broadcast signal as a lookup table format, and

an auxiliary storage unit for storing data for operating a program.

4. (Original) The channel switching apparatus of the digital television according to claim 3, wherein the main memory unit sets a diagram representing each broadcast station or a certain diagram in accordance with a received broadcast signal by a user as a channel icon, and stores it as a lookup table format.

5. (Currently amended) A channel switching method of a digital television, comprising:

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judging whether a channel up/down key or a channel number key is inputted;

inputting [[a]] the channel up/down key a channel or the channel number key;

searching a channel selected by the channel up/down key [[of]] or the channel number key;

A' cont'd
searching a channel icon corresponding to the searched receiving a broadcast signal corresponding to the selected channel, and searching for a channel icon of the selected channel from a memory unit; and

displaying the channel icon corresponding to of the searched selected channel on a screen for during the receiving the broadcast signal a gap in channel switching.

6. (Currently amended) The channel switching method of the digital television according to claim 5, wherein the channel switching method further comprises:

judging whether the channel up/down key or a new channel number key for selection of the other another channel is inputted; and

performing repeatedly from the channel icon searching process the searching, receiving, and displaying steps for the selected another channel when the channel up/down key or the new channel number key for selection of the other another channel is inputted.

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7. (Currently amended) The channel switching method of the digital television according to claim 6, wherein the channel switching method further comprises:

judging whether or not processing of ~~[[the]]~~ a video signal of the ~~pertinent~~ current channel is finished when the channel up/down key or the new channel number key for selection of ~~the other~~ another channel is not inputted; and

displaying the video signal corresponding to the current channel when the processing of the video signal is finished ~~or performing repeatedly from the channel icon displaying process when the processing of the video signal is not finished.~~

8. (New) A channel switching method for a television device, comprising:

receiving a new channel selection through a channel up/down key; and

displaying, on a screen of the television device, a channel icon corresponding to the selected new channel during a time period in which the television device processes the new channel selection and accesses a program of the selected new channel to display the program on the screen.

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9. (New) The channel switching method according to claim 8, further comprising:

prestorage, in a storage of the television device, a plurality of channel icons corresponding to program channels of a broadcast.

10. (New) The method according to claim 9, wherein the displaying step includes:

searching the storage of the television device to access the channel icon corresponding to the selected new channel from the plurality of channel icons stored in the storage.

11. (New) The method according to claim 8, wherein the television device is a digital television.

12. (New) A channel switching apparatus for use in a television device, comprising:

means for receiving a new channel selection through a channel up/down key; and

means for displaying, on a screen of the television device, a channel icon corresponding to the selected new channel during a time period in which the television device processes the new channel selection and accesses a program of the selected new channel to display the program on the screen.

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13. (New) The apparatus according to claim 12, further comprising:

means for prestoring, in a storage of the television device, a plurality of channel icons corresponding to program channels of a broadcast.

14. (New) The apparatus according to claim 13, wherein the means for displaying searches the storage of the television device to access the channel icon corresponding to the selected new channel from the plurality of channel icons stored in the storage.

15. (New) The apparatus according to claim 12, wherein the television device is a digital television.